

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference CLC/PH/8151INT	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/IB 2003/003432	International filing date (day/month/year) 17-07-2003	Priority date (day/month/year) 30-07-2002
International Patent Classification (IPC) or national classification and IPC G08B13/12		
Applicant Nokia Corporation et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 7 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a. ☒ (sent to the applicant and to the International Bureau) a total of 3 sheets, as follows:
 - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the report |
| <input checked="" type="checkbox"/> | Box No. II | Priority |
| <input checked="" type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input checked="" type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input checked="" type="checkbox"/> | Box No. VIII | Certain observations on the international application |

Date of submission of the demand 20-02-2004	Date of completion of this report 26-10-2004
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB 2003/003432

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))
☐ publication of the international application (under Rule 12.4)
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☐ the international application as originally filed/furnished

☒ the description:

pages 1 - 8 as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☒ the claims:

pages 9 - 11 as originally filed/furnished

pages* _____ as amended (together with any statement) under Article 19

pages* 12 - 14 received by this Authority on 09-07-2004

pages* _____ received by this Authority on _____

☒ the drawings:

pages 1 - 2 as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
☐ the claims, Nos. _____
☐ the drawings, sheets/figs _____
☐ the sequence listing (*specify*): _____
☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
☐ the claims, Nos. _____
☐ the drawings, sheets/figs _____
☐ the sequence listing (*specify*): _____
☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. II Priority

1. ☐ This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
- ☐ copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
- ☐ translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
2. ☐ This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

The priority is considered valid; therefore documents FR 2830108 A1 and WO 03048907 A1 are of no relevance.

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

☐ the entire international application

☒ claims Nos. 15-22, 28, 33-35, 38

because:

☐ the said international application, or the said claims Nos. _____
relate to the following subject matter which does not require an international preliminary examination (*specify*):

☐ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. _____
are so unclear that no meaningful opinion could be formed (*specify*):

☐ the claims, or said claims Nos. _____ are so inadequately supported
by the description that no meaningful opinion could be formed.

☒ no international search report has been established for said claims Nos. 15-22, 28, 33-35, 38

☐ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the
Administrative Instructions in that:

the written form

☐ has not been furnished

☐ does not comply with the standard

the computer readable form

☐ has not been furnished

☐ does not comply with the standard

☐ the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with
the technical requirements provided for in the Annex C-bis of the Administrative Instructions.

☐ See Supplemental Box for further details.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-14, 23-27, 29-32, 36, 37, 39</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-14, 23-27, 29-32, 36, 37, 39</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-14, 23-27, 29-32, 36, 37, 39</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 6151493 A
D2: DE 20112099 U1
D3: FR 2830108 A1

Document D1 describes a device for prohibiting unauthorized use of electronic devices. For example, the system can disable a cellular phone if it is separated from the user by more than a predetermined distance. It includes an identification signal transmission unit and a use prohibition mode cancelling unit attached or mounted to a cell phone.

The technique described in claims 23-24 and 29-31 differs from what is mentioned in D1 in that the portable device is partly disabled when separated from the person carrying it. Therefore, the technique described in claims 23-24 and 29-31 is reconsidered to be novel, to involve an inventive step and to be industrially applicable.

The cited document represents the general state of the art. The invention defined in claims 1-14, 23-27, 29-32, 36, 37, 39 is not disclosed by this document.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed portable device for connection to a person. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-14, 23-27, 29-32, 36, 37, 39 is novel and is considered to involve an inventive step. The invention is industrially applicable.

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Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
FR 2830108 A1	28-03-03	26-09-01	
WO 03048907 A2	12-06-03	02-12-02	04-12-01

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 36-38 are not considered as clear and concise. The definition of the matter for which protection is sought shall in the claims be in terms of the technical features of the invention. See PCT Rule 6.3 (b).

The claims also contain references to the drawings. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here.

the card, in response to the release of the releasable connector, so that the handset can be used normally as a telephone only in conjunction with the card which is present in the handset when the telephone is grabbed.

5 22. A cellular telephone network comprising a mobile telephone as claimed in claim 21 wherein the network is responsive to the disabling message sent by the mobile telephone to disable the card from normal use in the network.

23. A portable device comprising:
10 unauthorized separation detection means arranged to detect the unauthorized separation of the portable device from a counterpart device worn by a person; and
control means arranged to effect at least partial disablement of the portable device in response to the unauthorized separation of the portable device and counterpart, wherein the portable device and the counterpart device are arranged to
15 form a wireless couple, the diminution of which is detectable by the unauthorized separation detection means.

24. A portable device as claimed in claim 23, wherein the portable device comprises a cellular radio transceiver.

20 25. A portable device as claimed in claim 24, wherein the control means is arranged to effect at least partial disablement of the portable device by controlling the cellular radio transceiver to transmit a disable message.

25 26. A portable device as claimed in claim 23, wherein the portable device is a mobile telephone comprising a handset and a replaceable card and the control means is arranged to effect at least partial disablement of the mobile telephone by locking the handset to the replaceable card.

30 27. A portable device as claimed in claim 23 wherein the portable device is or comprises a cellular mobile telephone for operation in a cellular communications network and the control means is arranged to effect at least partial disablement of the portable device by sending a disabling message to the network for disabling normal operation of the telephone in the network.

35 28. A cellular telephone network comprising a portable device as claimed in claim 27,

wherein the mobile telephone comprises a handset and a replaceable card, which enables the handset to operate as a telephone in the network, and the network is responsive to the disabling message sent by the mobile telephone to disable the card from normal use in the network and/or to disable the handset from normal use in the network.

29. A portable device wearable by a person comprising:

unauthorized separation detection means arranged to detect the unauthorized separation of the portable device from a counterpart device; and

control means arranged to effect at least partial disablement of the counterpart device in response to the unauthorized separation of the portable device and counterpart, wherein the portable device and the counterpart device are arranged to form a wireless couple, the diminution of which is detectable by the unauthorized separation detection means.

30. A portable device as claimed in claim 29, wherein the counterpart device comprises a cellular radio transceiver or mobile telephone.

31. A portable device as claimed in claim 30, wherein the control means is arranged to effect at least partial disablement of the portable device by controlling the cellular radio transceiver to transmit a disable message.

32. A portable device as claimed in claim 29, wherein the portable device is a mobile telephone comprising a handset and a replaceable card and the control means is arranged to effect at least partial disablement of the mobile telephone by locking the handset to the replaceable card.

33. A portable device comprising:

unauthorized separation detection means arranged to detect the unauthorized separation of the portable device from a counterpart; and

control means arranged to effect at least partial disablement of one of the portable device and the counterpart in response to the unauthorized separation of the portable device and counterpart, wherein the portable device is or comprises a cellular mobile telephone for operation in a cellular communications network and the control means is arranged to effect at least partial disablement of the portable device by sending a disabling message to the network for disabling normal operation of the

telephone in the network.

34. A cellular telephone network comprising a portable device as claimed in claim 33 wherein the mobile telephone comprises a handset and a replaceable card, which
5 enables the handset to operate as a telephone in the network, and the network is responsive to the disabling message sent by the mobile telephone to disable the card from normal use in the network and/or to disable the handset from normal use in the network.

10 35. A portable device comprising:
unauthorized separation detection means arranged to detect the unauthorized separation of the portable device from a counterpart; and
control means arranged to effect at least partial disablement of one of the portable device and the counterpart in response to the unauthorized separation of the
15 portable device and counterpart, wherein the device is or comprises a cellular mobile telephone for operation in a cellular communications network and the telephone comprises a handset and a replaceable card, which enables the handset to operate as a telephone in the network, wherein the control means is arranged to effect at least partial disablement of the portable device by locking the handset to the card so that the
20 handset can be used normally as a telephone only in conjunction with the card which is present in the handset at the time of locking.

36. A portable device substantially as hereinbefore described with reference to and/or as shown in the Figures.

25 37. A mobile telephone substantially as hereinbefore described with reference to and/or as shown in the Figures.

38. A cellular radio communications network substantially as hereinbefore described
30 with reference to and/or as shown in the Figures.

39. A portable device having a radio transmitter, comprising:
unauthorized removal means arranged to detect the unauthorized removal of the device from a person porting the device; and
35 control means arranged to effect at least partial disablement of the device in response to the unauthorized removal of the device.